

SEQUENCE LISTING

<110> Sloning Biotechnology GmbH

<120> Method for the manufacture of nucleic acid molecules

<130> S 10010 PCT

<140> EP 02023385.4

<141> 2002-10-18

<160> 61

<170> PatentIn version 3.1

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14

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17

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16

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<220>

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<222> (7)..(16)

<223> any nucleotide

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16

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17

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<400> 25
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<222> (8)..(15)
<223> any nucleotide

<400> 26
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15

<210> 27
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<220>
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gtacgagacg cgcttttgcg cgtctcg

27

<210> 28
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<223> nucleic acid for the manufacture of nucleic acid molecules

<220>
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<220>
<221> misc_feature
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<400> 28
taccgccgaa gaggcgtttt cgctcttcg gcg

33

<210> 29
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<213> Artificial Sequence

<220>
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<220>
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<223> sequence appears in Fig. 1B, Fig. 1C, Fig. 1D and Fig. 3B

<220>
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<223> 5'-end and 3'-end are ligated

<220>
<221> misc_feature
<222> (29)..(29)
<223> biotinylated nucleotide

<400> 29
gcgcgtctcg taccgccgaa gaggcgtttt cgcctcttcg gcggtacgag acgcgctttt 60

<210> 30
<211> 33
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<220>
<221> misc_feature
<223> left sequence in Fig. 1E

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<212> DNA
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<220>
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<220>
<221> misc_feature
<223> right sequence in Fig. 1E, Fig. 3C and Fig. 3E

<220>
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<222> (16)..(16)
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<400> 31
cgccgaagag gcgttttcgc ctcttcg 27

<210> 32
<211> 33
<212> DNA
<213> Artificial Sequence

<220>
<223> nucleic acid for the manufacture of nucleic acid molecules

<220>
<221> misc_feature
<223> left sequence in Fig. 1F and Fig. 3E

<220>
<221> misc_feature
<222> (19)..(19)

11

<223> biotinylated nucleotide

<400> 32

cgctatcgaa gaggcgtttt cgcctcttcg ata

33

<210> 33

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> nucleic acid for the manufacture of nucleic acid molecules

<220>

<221> misc_feature

<223> splinker oligonucleotide in Fig. 2A and Fig. 4A

<400> 33

cgagacgcgc ttttgccgct ctgct

25

<210> 34

<211> 41

<212> DNA

<213> Artificial Sequence

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<223> nucleic acid for the manufacture of nucleic acid molecules

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<221> misc_feature

<223> 1. anchor nucleotide in Fig. 2A and Fig. 4A

<220>

<221> misc_feature

<222> (21)..(21)

<223> biotinylated nucleotide

<400> 34

ccgtcatacg gatagcggtt ttgcgtatc cgtatgacgg a

41

<210> 35

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<212> DNA

<213> Artificial Sequence

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<223> sequence appears in Fig. 2B, Fig. 2C, Fig. 2D and Fig. 4B

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<220>
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<223> 5'-end and 3'-end are ligated

<400> 35
gcgcgtctcg tccgtcatat ggatacgcgt ttctgcgtat ccgtatgacg gacgagacgc 60
gctttt 66

<210> 36
<211> 33
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<220>
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<220>
<221> misc_feature
<223> left sequence in Fig. 2E, Fig. 2F, Fig. 4C, Fig. 4D and Fig. 4E

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cggacgagac gcgcttttgc gcgtctcgtc cgt 33

<210> 37
<211> 33
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<223> right sequence in Fig. 2E, Fig. 4C and Fig. 4D

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<222> (17)..(17)
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<400> 37
catacggata cgcgttttgc cgtatccgta tga 33

<210> 38
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<220>
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<223> 2. anchor oligonucleotide in Fig. 2F and Fig. 4E

<220>
<221> misc_feature
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<223> biotinylated nucleotide

<220>
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<223> 5'-end and 3'-end are ligated

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gcgcgtctcg tacgcgacgc gtcgtaagcc gtccgaaga ggcgttttcg cctcttcggg 60
acggcttacg acgcgtcgcg tacgagacgc gctttt 96

<210> 40
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<220>
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<222> (47)..(47)
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<220>
<221> misc_feature
<223> 5'-end and 3'-end are ligated

<400> 40
gcgcgctctcg gtccggccta cgctagatcg atgccgaaga ggcgttttcg cctcttcggc 60
atcgaactag cgtaggccgg accgagacgc gctttt 96

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<220>
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<223> sequence appears in Fig. 5B (left of text "Cut elongation product #1 with 3 nucleotide overhang at 5' end") and in Fig. 5C (left sequence left of text "Transition #1")

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ggacggctta cgacgcgtcg cgtagagac gcgcttttgc gcgtctcgta cgcgacgcgt 60
cgtaagccg 69

<210> 42
<211> 69
<212> DNA
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<220>
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<223> sequence appears in Fig. 5B (left of text "cut elongation product #2 with 3 nucleotide overhang at 5' end") and in Fig. 5C (left sequence left of text "Transition #2")

<400> 42
gcatcgaact agcgtaggcc ggaccgagac gcgcttttgc gcgtctcggt ccggcctacg 60
ctagatcga 69

<210> 43
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<220>
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<400> 43
tcccagagacc gcgttttcgc ggtctcg

27

<210> 44
<211> 27
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<223> Sequence appears in Fig. 5C (right sequence left of text "Transition #2")

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<222> (16)..(16)
<223> biotinylated nucleotide

<400> 44
tgccgagacc gcgttttcgc ggtctcg

27

<210> 45
<211> 96
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<223> sequence appears in Fig. 5D, Fig. 5E, Fig. 5F and Fig. 5G (in each case left of text "Elongation block #1")

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<223> biotinylated nucleotide

<220>
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<400> 45
gcgcgtctcg tacgcgacgc gtcgtaagcc gtcccgagac cgcgttttcg cggctctcggg 60
acggcttacg acgcgtcgcg tacgagacgc gctttt 96

<210> 46
<211> 96
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<220>
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<223> sequence appears in Fig. 5D, Fig. 5E, Fig. 5F, Fig. 7A (in each case left of text "Elongation block #2") and in Fig. 5H (right of text "Elongation block #2")

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<222> (47)..(47)
<223> biotinylated nucleotide

<220>
<221> misc_feature
<223> 5'-end and 3'-end are ligated

<400> 46
gcgcgtctcg gtccggccta cgctagatcg atgccgagac cgcgttttcg cggctctcggc 60
atcgaactag cgtaggccgg accgagacgc gctttt 96

<210> 47
<211> 68
<212> DNA
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<220>
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<223> sequence appears in Fig. 5G (left of text "Eco31I cut Elongation

block"), Fig. 5I (above text "Cut elongation block 1"), Fig. 7B and Fig. 7C (in each case left of text "Cut elongation block #1")

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ggacggctta cgacgcgtcg cgtacgagac gcgcttttgc gcgtctcgta cgcgacgcgt 60
cgtaagcc 68

<210> 48
<211> 68
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<223> sequence appears in Fig. 5H (right of text "Elongated transition anchor"), Fig. 5I (right of text "Cut elongation block 1"), Fig. 7B (left of text "Cut elongation block #2") and Fig. 7D (left of text "Cut elongation block #2")

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<222> (37)..(37)
<223> biotinylated nucleotide

<400> 48
gtccggccta cgctagatcg atgccgagac cgcgttttgc cggctctcggc atcgaactag 60
cgtaggcc 68

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<220>
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cgcgtttttcg cggctctggc atcgaactag cgtaggccgg acggcttacg acgcgtcgcg 120
tacgagacgc gctttt 136

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<222> (52)..(52)
<223> biotinylated nucleotide

<220>
<221> misc_feature
<223> 5'-end and 3'-end are ligated

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gcgcgtctcg tacgcgacgc gtcgataagc cgtctcatac ggatacgcgt tttcgcgtat 60
ccgtatgaga cggcttatcg acgcgtcgcg tacgagacgc gctttt 106

<210> 51
<211> 106
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<220>
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<223> sequence appears in Fig. 6A (left of text "Elongation product #2)

<220>
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<222> (52)..(52)
<223> biotinylated nucleotide

<220>
<221> misc_feature

<223> 5'-end and 3'-end are ligated

<400> 51
gcgcgtctcg gtccggccta cgctgagatc gatgccatac ggatacgcgt tttcgcgtat 60
ccgtatggca tcgaactcag cgtaggccgg accgagacgc gctttt 106

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<220>
<221> misc_feature
<223> sequence appears in Fig. 6B (left of text "Cut elongation product #1 with 3 nucleotide overhang at 5' end") and Fig. 6C (left sequence left of text "Transition #1")

<400> 52
gacggcttat cgacgcgtcg cgtacgagac gcgcttttgc gcgtctcgta cgcgacgcgt 60
cgataagccg tct 73

<210> 53
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<220>
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<223> sequence appears in Fig. 6C (left sequence left of text "Transition #1")

<220>
<221> misc_feature
<222> (13)..(13)
<223> biotinylated nucleotide

<400> 53
cgagaccgcg ttttcgcggt ctcca 25

<210> 54
<211> 73
<212> DNA
<213> Artificial Sequence

<220>
<223> nucleic acid for the manufacture of nucleic acid molecules

<220>
<221> misc_feature
<223> sequence appears in Fig. 6B (left of text "Cut elongation product #2 with 3 nucleotide overhang at 5' end") and in Fig. C (left of text "Transition #2")

<400> 54
catcgaactc agcgtaggcc ggaccgagac gcgcttttgc gcgtctcggt ccggcctacg 60
ctgagatcga tgc 73

<210> 55
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> nucleic acid for the manufacture of nucleic acid molecules

<220>
<221> misc_feature
<223> sequence appears in Fig. 6C (right sequence left of text "Transition #2")

<220>
<221> misc_feature
<222> (13)..(13)
<223> biotinylated nucleotide

<400> 55
cgagaccgcg ttttcgcggt ctcgg 25

<210> 56
<211> 98
<212> DNA
<213> Artificial Sequence

<220>
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<220>
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<223> sequence appears in Fig. 6D (left of text "Elongation block #1")

<220>
<221> misc_feature
<222> (48)..(48)
<223> biotinylated nucleotide

<220>
<221> misc_feature
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gcgcgtctcg tacgcgacgc gtcgataagc cgtctcgaga ccgcgttttc gcggtctcga 60
gacggcttat cgacgcgtcg cgtacgagac gcgctttt 98

<210> 57
<211> 98
<212> DNA
<213> Artificial Sequence

<220>
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<220>
<221> misc_feature
<223> sequence appears in Fig. 6D (left of text "Elongation block #2")

<220>
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<222> (48)..(48)
<223> biotinylated nucleotide

<220>
<221> misc_feature
<223> 5'-end and 3'-end are ligated

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catcgaactc agcgtaggcc ggaccgagac gcgctttt 98

<210> 58
<211> 96
<212> DNA
<213> Artificial Sequence

<220>
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<220>
<221> misc_feature
<223> sequence appears in Fig. 7A (left of text "Elongation block #1")

<220>
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<222> (47)..(47)
<223> biotinylated nucleotide

<220>
<221> misc_feature
<223> 5'-end and 3'-end are ligated

22

<400> 58
cgccgtctcg ggacggctta cgacgcgtcg cgtacgagac ccgcttttgc gggctctggta 60
cgcgacgcgt cgtaagccgt cccgagccgg cgtttt 96

<210> 59
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<212> DNA
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<223> nucleic acid for the manufacture of nucleic acid molecules

<220>
<221> misc_feature
<222> (1)..(4)
<223> single-stranded overhang, not complemented by complementary strand

<220>
<221> misc_feature
<222> (5)..(20)
<223> double-stranded nucleic acid, complemented by SEQ ID No. 48. The complementary strand continues in its 5'-direction with an overhang of 4 nucleotides (GCAT)

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ggacggctta cgacgcgtcg 20

<210> 60
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> nucleic acid for the manufacture of nucleic acid molecules

<220>
<221> misc_feature
<222> (1)..(4)
<223> single-stranded overhang, not complemented by complementary strand

<220>
<221> misc_feature
<222> (1)..(4)
<223> double-stranded nucleic acid, complemented by SEQ ID No. 47. The complementary strand continues in its 5'-direction with an overhang of 4 nucleotides (CAGG)

<400> 60
tacgcgacgc gtcgtaagcc 20

<210> 61

<211> 108
<212> DNA
<213> Artificial Sequence

<220>
<223> nucleic acid for the manufacture of nucleic acid molecules

<220>
<221> misc_feature
<223> sequence appears in Fig. 7D (right of text "Complementary overhang for subsequent transposition step")

<220>
<221> misc_feature
<222> (57)..(57)
<223> biotinylated nucleotide

<220>
<221> misc_feature
<223> 5'-end and 3'-end are ligated

<400> 61
tacgcgacgc gtcgtaagcc gtccggccta cgctagatcg atgccgagac cgcgttttcg 60
cggctctcggc atcgaactag cgtaggccgg acggcttacg acgcgtcg 108